

Title (en)

PREPARATION OF AMPHIPHILIC BLOCK POLYMERS BY CONTROLLED RADICAL MICELLAR POLYMERISATION

Title (de)

HERSTELLUNG VON AMPHIPHILEN BLOCKPOLYMEREN DURCH KONTROLLIERTE RADIKALISCHE MIZELLARE POLYMERISATION

Title (fr)

PREPARATION DE POLYMERES SEQUENCES AMPHIPHILES PAR POLYMERISATION RADICALEIRE MICELLAIRE A CARACTERE CONTROLE

Publication

EP 2780383 B1 20160316 (FR)

Application

EP 12775527 A 20121024

Priority

- FR 1103246 A 20111024
- FR 1103707 A 20111205
- EP 2012071079 W 20121024

Abstract (en)

[origin: WO2013060741A1] The present invention relates to the preparation of block copolymers, which can be used in particular as rheology agents, suitable, inter alia, for oil extraction, comprising a step of radical micellar polymerisation wherein the following are brought into contact in an aqueous medium: - hydrophilic monomers, dissolved or dispersed in the aqueous medium; - hydrophobic monomers in the form of a micellar solution, i.e. containing, in a dispersed state, micelles comprising these hydrophobic monomers; - at least one radical polymerisation initiator; and - at least one radical polymerisation control agent. The polymers obtained according to the invention can be used in particular for enhanced oil recovery (EOR).

IPC 8 full level

C08F 293/00 (2006.01); **C08F 2/38** (2006.01); **C08F 297/02** (2006.01); **C09K 8/04** (2006.01); **C09K 8/588** (2006.01); **C09K 8/88** (2006.01)

CPC (source: EP RU US)

C08F 2/38 (2013.01 - EP US); **C08F 293/005** (2013.01 - EP US); **C08F 297/026** (2013.01 - US); **C09K 8/04** (2013.01 - US); **C09K 8/588** (2013.01 - US); **C09K 8/882** (2013.01 - US); **C08F 2/38** (2013.01 - RU); **C08F 293/005** (2013.01 - RU); **C08F 297/026** (2013.01 - RU); **C08F 2438/03** (2013.01 - EP US); **C09K 8/04** (2013.01 - RU); **C09K 8/588** (2013.01 - RU); **C09K 8/882** (2013.01 - RU)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2013060741 A1 20130502; BR 112014009835 A2 20170502; BR 112014009835 B1 20210302; CA 2852104 A1 20130502; CA 2852104 C 20190910; CN 104011101 A 20140827; CN 104011101 B 20180105; DK 2780383 T3 20170220; EP 2780383 A1 20140924; EP 2780383 B1 20160316; MX 2014004978 A 20141024; MX 354132 B 20180214; RU 2014121011 A 20151210; RU 2632886 C2 20171011; US 2014378617 A1 20141225; US 9580535 B2 20170228

DOCDB simple family (application)

EP 2012071079 W 20121024; BR 112014009835 A 20121024; CA 2852104 A 20121024; CN 201280064296 A 20121024; DK 12775527 T 20121024; EP 12775527 A 20121024; MX 2014004978 A 20121024; RU 2014121011 A 20121024; US 201214353360 A 20121024